



Forestry
Canada Forêts
Canada

**NO.
223**

Forestry Canada - Maritimes Region

TECHNICAL NOTE

FOREST NURSERY PRODUCTION AND SHIPMENTS IN THE MARITIMES, 1988

In 1988, 78.8 million seedlings were shipped from 21 forest nurseries in the Maritimes - 43.7 million in New Brunswick, 32.2 million in Nova Scotia, and 2.9 million in Prince Edward Island (Table 1). The number of seedlings shipped during 1988 was only about 1 million seedlings less than during 1987. Although more than 15 species were produced, the major species were black spruce (47%), white spruce (14%), and jack pine (13%) (Table 2, 3). Container stock comprised 90% of the total nursery production, and 87% of that was from overwintered crops. The amount of container stock overwintered during 1988/1989 was 79.9 million seedlings (Table 4).

Atlantic Forest Nursery Crop Advisory Committee

Nursery managers in the Atlantic region had been concerned with a number of pesticide issues and had noted that the Canadian Forest Nursery Weed Management Association is only concerned with weed management problems. A group was needed to address additional topics related to crop production on a regional and national basis. These concerns included: identifying registered pesticides for specific use patterns, interpretation of labels, education, information, and lack of control measures for pest problems. In April 1990, a small group met in Fredericton to address these concerns and decided to seek participation from provincial and federal forestry departments concerned with nursery production in the Atlantic region.

NURSERIES ☒

PLANTATIONS ☐

SILVICULTURE ☐

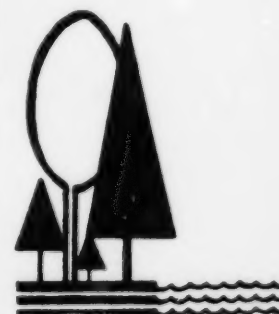
UTILIZATION ☐

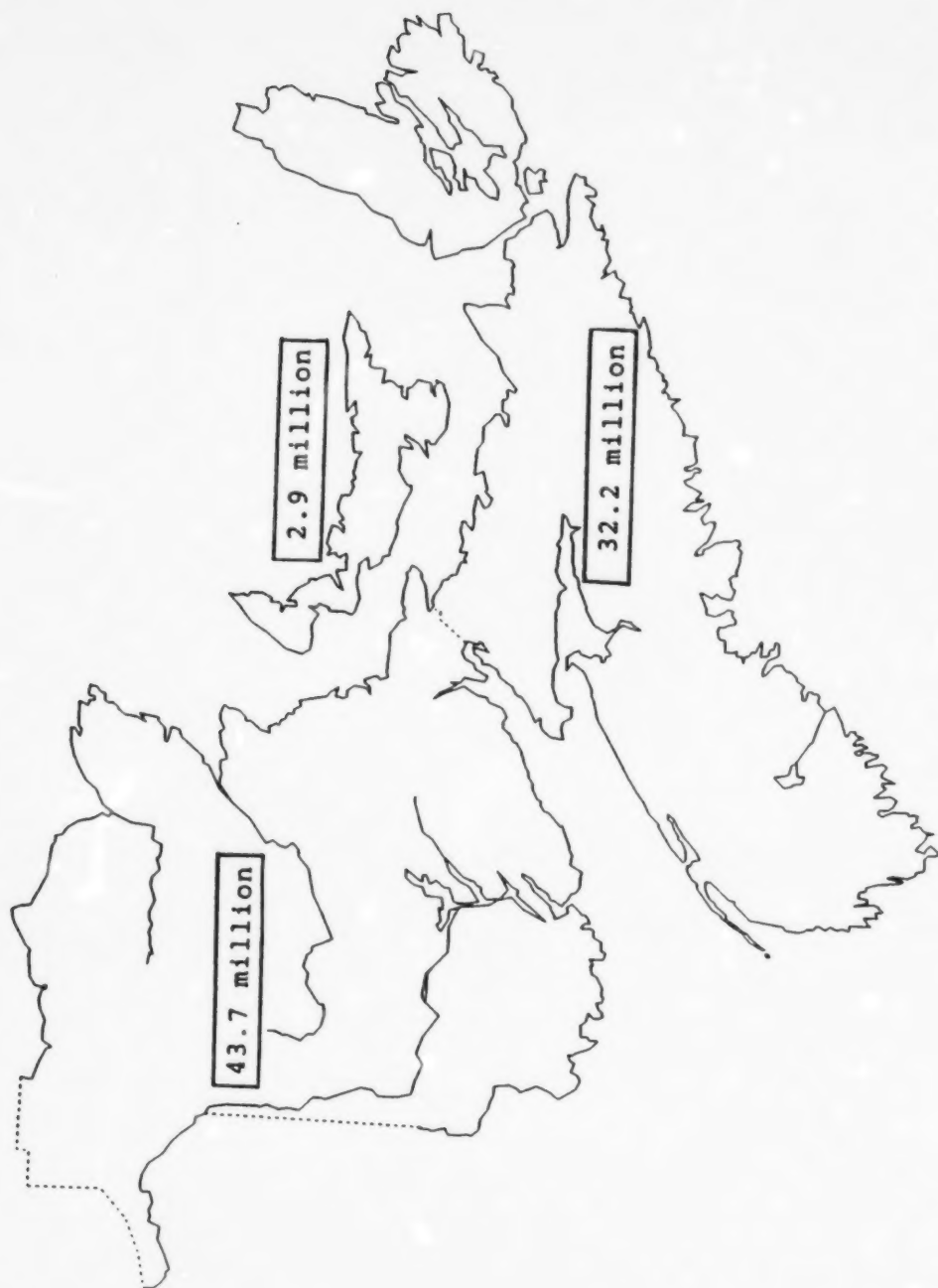
ECONOMICS ☐

**TREE
IMPROVEMENT** ☐

**INSECTS
AND
DISEASES** ☐

Forestry Canada - Maritimes Region
P.O. Box 4000, Fredericton, N.B. E3B 5P7
P.O. Box 667, Truro, N.S. B2N 5E5
P.O. Box 190, Charlottetown, P.E.I. C1A 7K2





FOREST NURSERY SHIPMENTS IN THE MARITIMES, 1988

Of the goals identified, three of immediate concern are:

1. to interpret pesticide labels and prepare a formal compendium of registered pesticide products for these use patterns;
2. to make recommendations for use of pesticide products; and
3. to identify pest problems without suitable control methods and enact submissions to the Minor Use Program or label extensions for full registration.

Furthermore, it was recognized that pesticide usage, integrated pest management, and environmental concerns must be related to all aspects of crop management. Hence, the group became designated the Crop Advisory Committee.

Stock Quality Testing and Training Facility

Our program in nursery services at this Centre has included troubleshooting, technology transfer, and operational research activities in forest nursery practices, planting stock quality, and plantation performance. These services have been supplemented for three years by Canada Employment and Immigration Commission and Job Development Projects through the Maritime Forest Ranger School. Objectives for these projects include training forest nursery technologists, as well as supporting stock quality testing and a technology transfer activity for regional nurseries.

In providing a testing service, our objectives have been to develop techniques and to foster acceptance by forest agencies; then to transfer the techniques to the Soil and Plant Testing Lab, operated by the Department of Forest Resources at the University of New Brunswick. Frost hardiness and bud development studies, and needle primordia counts were transferred in 1988; plant viability testing will be transferred in 1991.

Newfoundland and Labrador

Provincial facilities at Wooddale, Mount Pearl, and Goose Bay shipped 7.8 million seedlings in 1988. Containerized seedlings comprised 39% of that production. The production by species was 70% black spruce, 9% white spruce, 9% jack pine, 6% red pine, and 6% larch.

Private production was reported from the Development Associations in Barachois and Bay St George. They shipped 1.14 million seedlings of a variety of coniferous species.

R.D. Hallett
L.J. Lanteigne
T.W. Burns

February 1990

Table 1. Shipments of seedlings for the Maritimes by province, agency, and production type, 1988.

Province and agency	Seedling shipment ('000)			
	Container		Bareroot	Total
	Overwinter	Current		
NEW BRUNSWICK				
N.B. Natural Resources				
& Energy - Kingsclear	8 960	2 193	2 081	13 234
- Madran	4 432	1 712		6 144
- Kent	4 522	1 456		5 978
Frasers Inc.	6 124			6 124
Georgia Pacific Corp.	579	85		664
J.D. Irving Ltd. - Juniper	6 404	2 843	732	9 979
- Sussex	797			797
MacTavish Equipment Ltd.	360			360
Mann Brothers	200			200
Valley Forest Products Ltd.	60			60
Canada East Nurseries			170	170
TOTAL	32 438	8 289	2 983	43 710
NOVA SCOTIA				
N.S. Lands & Forests				
- Lavrencetown	422	124	2 667	3 213
- Strathlorne	11 341	150	1 887	13 378
- Wittenburg	4 010	300		4 310
Bowater Mersey	558	6		564
Morrison's Forest Nursery	1 710			1 710
Octa Evergreens Ltd.	1 393			1 393
Pleasant Valley		150		150
Scott Paper Inc.	5 696	135		5 831
Westenenk's Forest Nursery	1 641			1 641
TOTAL	26 771	865	4 554	32 190
PRINCE EDWARD ISLAND				
J.F. Gaudet Forest Nursery	2 563		314	2 877
GRAND TOTAL	61 772	9 154	7 851	78 777

Table 2. Shipments of seedlings for the Maritimes by species and production type, 1988.

Species	Seedling shipment ('000)			
	Container		Bareroot	Total
	Overwinter	Current		
Black spruce	28 900	6 022	1 797	36 719
Red spruce	4 782	118	1 429	6 329
Norway spruce	2 003	1 968	510	4 481
White spruce	10 294	174	481	10 949
Balsam fir	792	150	1 172	2 114
Fraser fir	77			77
Austrian pine	109			109
Jack pine	9 547		686	10 233
Red pine	3 508	20	1 603	5 131
Scots pine	72	78	18	168
White pine	136	281	38	455
Eastern larch	1 503	285	90	1 878
Japanese larch	47			47
Hybrid Poplar			26	26
Blue spruce		38		38
Eastern cedar		20		20
Miscellaneous	2		1	3
TOTAL	61 772	9 154	7 851	78 777

Table 3. Shipments of seedlings for the Maritimes by species and province, 1988.

Species	Seedling shipment ('000)			Total
	New Brunswick	Nova Scotia	Prince Edward Island	
Black Spruce	24 611	11 260	848	36 719
Red spruce	112	6 217		6 329
Norway spruce	1 766	2 715		4 481
White spruce	2 606	7 906	437	10 949
Balsam fir	1 144	762	208	2 114
Fraser fir	77			77
Austrian pine	10		99	109
Jack pine	10 118	115		10 233
Red pine	1 671	2 904	556	5 131
Scots pine	118	50		168
White pine	331	18	106	455
Eastern larch	1 088	193	597	1 878
Blue spruce	38			38
Eastern cedar	20			20
Japanese larch		47		47
Hybrid poplar			26	26
Miscellaneous		3		3
TOTAL	43 710	32 190	2 877	78 777

Table 4. Container seedlings overwintered during 1988-89 in the Maritimes by province and agency.

Province	Agency	('000)
NEW BRUNSWICK		
	N.B. Natural Resources & Energy	
	- Kingsclear	13 006
	- Madran	2 878
	- Kent	3 301
	Frasers Inc.	8 358
	Georgia Pacific Corp.	811
	J.D. Irving Ltd. - Juniper	7 393
	- Sussex	420
	MacTavish Equipment Ltd.	400
	Mann Brothers	200
	Valley Forest Products Ltd.	280
TOTAL		37 047
NOVA SCOTIA		
	N.S. Lands & Forests	
	-Lawrencetown	1 750
	-Strathlorne	15 540
	-Wittenburg	5 395
	Bowater Mersey	676
	Morrison's Forest Nursery	3 414
	Octa Evergreens Ltd.	1 730
	Pleasant Valley	950
	Scott Paper Inc.	8 527
	T & D Nursery	121
	Westenenk's Forest Nursery	2 864
TOTAL		40 967
PRINCE EDWARD ISLAND	J.F. Gaudet Forest Nursery	1 882
GRAND TOTAL		79 896